

**SPECIFICATION
FOR
CHAIRS, METAL FOLDING**

(This specification is released for procurement purposes until revised or rescinded.)

SCOPE

This specification covers metal folding chairs generally used by State institutions and agencies. They are categorized as Standard or Medium Duty. Heavy-duty chairs are not covered in this specification

I. CLASSIFICATION

Chairs provided under this specification may be either tubular or double-beaded channel with metal seat and metal back. They are categorized Standard or Medium-Duty

II. REQUIREMENTS

A. STEEL

The steel used in the fabrication of the chairs shall be commercial quality, cold rolled and shall be bright, smooth, free from scale, pits, wrinkles, laps, crimps and buckles affecting strength. All steel tubing shall be seamless, or continuously seam welded.

B. DESIGN

The structural design of the chairs shall be such that any sustained and impact weight will be uniformly distributed on all supporting parts with no excessive strain on any one or pair of supporting parts under normal usage. When in use, the chair shall not collapse due to a shift in weight of the user. The folding mechanism shall be of such design as to guard against personal injury and snagging or tearing of clothing. The design shall be such that one person can easily fold and unfold the chairs. The chairs shall fold compactly to permit stacking directly over one another in a freestanding pile.

C. WELDING AND BRAZING

All welding and brazing shall accomplish rigid joints in proper alignment. Welds shall be sound without porosity and form rigid one piece units of sufficient strength to meet the prescribed tests, without any parts that will work loose or affect the use of the item during use, and to withstand rough handling in moving.

D. SHOES

The chair legs shall be provided with replaceable shoes made of good quality rubber or other resilient material that will not mar floors and is resistant to sliding. The shoes and chair legs shall be so fabricated that cutting or shearing of the shoes during usage of the chairs will be held to a minimum. Color of shoes shall harmonize with the color finish of the chair.

E. HINGE POINTS

Hinge points required to accomplish folding shall be sturdily constructed and free of appreciable wear or deformation after repeated use of the chair.

F. ENDS OF REAR LEGS

Top end of rear legs shall have metal or other suitable caps installed so they are not removable manually without tools.

G. SEAT

The seat shall be fabricated from a single piece of sheet steel and shall be formed in such a manner to be form fitting and to provide strength and rigidity and to eliminate sharp edges.

H. BACKREST

The backrest shall be not less than 6" high, and fabricated from a single piece of sheet steel, to a comfortable form-fitting shape. All edges shall be formed to provide maximum strength to the back. There shall be no sharp exposed edges. The lower edge of the back shall be not more than 11" above the seat.

I. FINISH

Metal surfaces including unexposed surfaces when chair is in normal use position shall be thoroughly degreased chemically and cleared of all mill scale, rust, and all welds ground smooth and primed with zinc chromate or phosphate. Entire chair to be finished with enamel paint. Total dry film thickness of enamel alone shall be not less than 1 mil (0.001"). The finish shall level out to produce smooth, uniform exposed surfaces without runs, wrinkles, grits, areas of thin film or no film and separation of color. The finish shall withstand the test specified. Bidders shall list colors available at no change in bid price.

J. WORKMANSHIP

Finished chairs shall be neat, clean and well tailored and shall be free from any defects that affect the appearance or the serviceability of the chairs, or the safety of the user. Chairs shall fold smoothly and quietly.

K. IDENTIFICATION

Each chair shall be marked in a plain, permanent, and inconspicuous manner with the manufacturer's name or trademark of such known character that the source of manufacture and the product may be readily determined.

IV. WARRANTY

The manufacturer warrants to the owner that all folding chairs furnished under this specification will be of good material and workmanship and agrees to replace promptly any units which by reason of defective material or workmanship shall fail under normal use, free of negligence or accident, for a minimum period of two years from date of acceptance. Such replacement shall be free of any charge to the owner or his representative.

V. SERVICE, PARTS, AND MANUALS

None required.

VI. DELIVERY AND PAYMENT

Delivery and payment for chairs under this specification shall be in accordance with the terms and conditions of the invitation for bids. The contractor shall be responsible for any packing, packaging or protection required to insure delivery in an undamaged condition.

VII. ORDERING DATA

Purchasers should state the following in the Requisition or the Invitation for Bids:

1. Title, number, and date of this specification.
2. Color desired.